



A Study on Impact of Mergers on Share Price Performance of Merged Banks

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Received: 05 Jun 2025; Received in revised form: 29 Jun 2025; Accepted: 03 Jul 2025; Available online: 08 Jul 2025

Abstract— This study analyses the impact of mergers on the share price performance of Canara Bank and Bank of Baroda. With recent consolidations in the Indian banking sector aimed at improving efficiency and competitiveness, the study examines key financial ratios – P/E, EPS, ROE, dividend yield, and D/E – before and after the mergers. Using t-tests, it evaluates the significance of changes in these indicators. Results reveal mixed outcomes: some metrics improved, while others showed no significant change. The study offers insights into how mergers affect financial performance and market perception in India's evolving banking landscape.

Keywords – Share price performance, Merged banks, Pre-merger and post-merger analysis, Merger impact, Banking sector consolidation, financial performance, Shareholder value, Market efficiency.

I. INTRODUCTION

A merger is an agreement that unites companies into one new organization. Mergers are normally performed to amplify the employers attain, enlarge into new segments, or benefit marketplace percentage. All of these are accomplished to increase shareholder cost. Often, during a merger, businesses have a no keep clause to save you purchases or mergers via additional agencies. Mergers are common in the business, with companies searching for to amplify their operations and increase their market percentage. The news of a merger deal can trigger a response in the stock market, with traders adjusting their positions in response to the records. The mergers can impact at the inventory price volatility, stock fee of the merging businesses and the goal agencies.

Statement of the Problem

When the first bank merger happened in 1921, it impacted the share prices of banks. There are various factors which impact these share prices. The goal of the current study is to study the long-term, short-term and

immediate impact of banks on share price performance. To help shareholders for better understanding of banking sector and take better investment decisions.

Research Objectives, Questions & Hypotheses

Objectives:

- To study the concept of merged banks.
- To study the impact of merged banks on the share price performance.
- To analyse the pre-merger and post-merger share price performance of merged banks.
- To study the long-term and short-term impact of merges on shares.

Hypotheses:

- **Null Hypothesis(H0):** There is no significant difference between share price performance of bank's pre-merger and post-merger Mean's measured with valuation ratios.
- **Alternative Hypothesis(H1):** There is a significant difference between share price

performance of banks pre-merger and post-merger Mean's measured with valuation ratios.

Significance of the Study

This study evaluates how bank mergers affect on share price performance and key financial indicators by analysing mergers of Canara bank and Bank of Baroda. In the context of the Indian government's push for banking sector consolidation, understanding the real financial outcomes of such mergers is crucial. By assessing pre-merger and post-merger financial metrics, the study provides valuable insights into whether mergers deliver value shareholders, enhance market confidence, and improve operational efficiency. The findings are beneficial for policymakers, investors, financial analysts, and bank management in making informed decisions regarding future mergers and evaluating their long-term impact on financial stability and shareholder wealth.

Scope and Limitations

The study aims to provide insights into the immediate and long-term effects of mergers on shareholder value, market efficiency and financial stability. The scope of the study was extended for 5 years viz. the financial data of the years. The study focuses only on two merged banks-Canara Bank and Bank of Baroda.

II. REVIEW OF LITERATURE

- D. Ratnadiwakara (2024)-Mergers increase loan rejection rates for riskier FHA loans, especially affecting low-income and minority borrowers. Post-merger, banks charge higher interest on high-risk loans, without showing cost benefits from merger efficiencies. The impact of mergers varies based on borrower risk, income, and race.
- Arnald R. Cowan (2022)-FDIC-assisted acquisitions of failed banks (2008-2013) do not raise default risk or cause overbidding. Shareholder wealth increases can persist if acquirers continue securing FDIC deals. These mergers are financially stable and don't negatively impact acquirers' risk profiles.
- A.K. Rai (2021)-Using event study methodology, the merger announcements of six banks into four show mixed impacts. Target banks see positive returns around the event, while bidder banks experience negative effects. This is one of the first

Indian studies focusing on merger announcement effects on bank stock performance.

- Zahoor Rahman et al. (2018)-In Pakistan (2002-2012), mergers in the banking sector showed mixed impacts on stock prices. Some banks had negative abnormal returns, while others saw positive effects. The results help guide investor decisions and highlight the variable nature of merger outcomes.
- Krishn A. Goyal & Vijay Joshi (2011)-Studying 17 Indian bank mergers, the paper explores strategic motives like expansion and competitiveness. While financial gains were noted, it also emphasizes the need to consider HR and organizational behaviour impacts, using the ICICI-Bank of Rajasthan merger as a key case.
- Aggarwal & Gupta (2020)-Public sector bank mergers in India showed short-term share price gains after announcements, but mixed long-term results. Success depended on financial strength and execution quality, suggesting that good planning is vital for merger effectiveness.

III. RESEARCH METHODOLOGY

Research design: This study follows a descriptive and analytical research design, focuses on examining pre-merger and post-merger share price behaviour to determine whether shareholders gain or loss.

Sampling Technique: Simple non-random sampling of two merged banks (i.e. Canara bank and Bank of Baroda) was utilised for the purpose of the study.

Data Collection Methods

Data Type : Secondary data

Data sources : Annual reports of Canara bank and Bank of Baroda

Money control website for financial database

Industry journals and research papers

Data Analysis Techniques

Quantitative analysis- Price-to-earnings ratio

Dividend yield

Earnings per share

Return on Equity

Debt-to-Equity ratio

Descriptive Statistics -Mean, Standard Deviation and T-test of share prices

IV. DATA ANALYSIS

Analysis of share price performance of Canara bank with ratios:

Price-to-earnings ratio:

Year	Market price per share	Earnings per share	Price-to-earnings ratio
2018	159.1	-70.47	-2.257698311
2019	173	4.71	36.73036093
2020	90.5	-26.5	-3.41509434
2021	152.2	16.91	9.000591366
2022	227.75	32.49	7.009849184

Dividend yield:

Year	Market price per share	Dividend per share	Dividend yield
2018	-23.7	0	0
2019	-19.5	0	0
2020	-41.7	0	0
2021	55.1	0	0
2022	72.4	6.5	0.089779006

Earnings per share:

Year	Earnings per share
2018	-70.47
2019	4.71
2020	-26.5
2021	16.91
2022	32.49

Returns on Equity:

Year	Net income	Average Shareholders' equity	Return on equity
2018	-4,222.24	3,718.92	-1.135340368

2019	347.02	35,891.04	0.009668708
2020	-2,235.72	37,735.10	-0.059247756
2021	2,557.58	49,088.95	0.052100931
2022	5,678.41	62,498.12	0.090857293

Debt-to-Equity ratio:

Year	Total debt	Shareholders' equity	Debt-to-equity ratio
2018	5,63,580.37	35,604.84	15.82875727
2019	6,40,025.56	36,177.23	17.69139207
2020	6,68,112.94	39,292.96	17.00337516
2021	10,60,858.14	58,884.93	18.01578333
2022	11,32,694.21	66,111.31	17.13313819

Analysis of share price performance of Bank of Baroda bank with ratios:

Price-to-earnings ratio:

Year	Market price per share	Earnings per share	Price-to-earnings ratio
2017	173.9	6	28.98333333
2018	142.6	-10.53	-
2019	133	1.64	81.09756098
2020	54	1.36	39.70588235
2021	74.8	1.78	42.02247191

Dividend yield:

Year	Market price per share	Dividend per share	Dividend yield
2017	173.9	6	0.034502588
2018	142.6	0	0
2019	133	0	0
2020	54	0	0
2021	74.8	0	0

Earnings per share:

Year	Earnings per share
2017	6
2018	-10.53
2019	1.64
2020	1.36
2021	1.78

Debt-to-Equity ratio:

Year	Total debt	Shareholders' equity	Debt-to-equity ratio
2017	6,32,286.61	40,303.25	15.68822886
2018	6,53,886.79	43,394.77	15.06833174
2019	7,05,891.02	45,941.10	15.365131
2020	10,39,053.74	71,856.22	14.46017812
2021	10,33,844.86	77,045.72	13.41858912

Returns on Equity:

Year	Net income	Average Shareholders' equity	Return-on-equity
2017	1,383.14	40,303.25	0.034318324
2018	-2,431.81	41,849.01	-0.05810914
2019	433.52	44,667.94	0.009705395
2020	546.19	58,898.66	0.009273386
2021	828.96	74,450.97	0.011134308

Hypothesis:

- **Null Hypothesis(H0):** There is no significant difference between share price performance of bank's pre-merger and post-merger Mean's measured with valuation ratios.
- **Alternative Hypothesis(H1):** There is a significant difference between share price performance of banks pre-merger and post-merger Mean's measured with valuation ratios.

Calculation of Mean, Standard deviation and T-Test of share price performance -Merger of syndicate bank with Canara bank in 2020:

Financial ratios	Period	Mean	Standard deviation	T-test
Price-to-earnings ratio	pre-merger	17.23633131	27.56872107	0.284047265
	post-merger	8.005220275	1.407667296	
Dividend yield	pre-merger	0	0	0.108173448
	post-merger	0.044889503	0.063483344	
Earnings per share	pre-merger	-32.88	53.16028781	0.90223212
	post-merger	24.7	11.01672365	
Return on equity	pre-merger	-0.56283583	0.809643682	0.933760951
	post-merger	0.071479112	0.027404886	
Debt-to-equity	pre-merger	16.76007467	1.317081698	0.948825662
	post-merger	17.57446076	0.624124264	

Calculation of Mean, Standard deviation and T-Test of share price performance -Merger of Dena bank and Vijaya bank with Bank of Baroda bank in 2019:

Financial ratios	Period	Mean	Standard deviation	T-test
Price-to-earnings ratio	pre-merger	7.720537	30.070136	0.951383
	post-merger	40.86418	1.6380762	

Dividend yield	pre-merger	0.017251	0.024397	0.108173
	post-merger	0	0	
Earnings per share	pre-merger	-2.265	11.688475	0.706734
	post-merger	1.57	0.2969848	
Return on equity	pre-merger	-0.011895	0.0653561	0.711542
	post-merger	0.010204	0.0013159	
Debt-to-equity	pre-merger	15.37828	0.4383335	0.630085
	post-merger	13.93938	0.7365146	

V. DISCUSSION

• Improved Profitability Post-Merger:

Both Canara Bank and Bank of Baroda showed notable improvements in EPS and ROE after their respective mergers, indicating a gradual positive impact on shareholder returns and operational efficiency.

• Mixed Trends in P/E Ratio:

Canara Bank's P/E ratio turned positive after initially dropping during the merger, while Bank of Baroda's P/E spiked sharply during the merger and later stabilized – reflecting changing market perceptions and recovery in earnings.

• Dividend Yield Fluctuations:

Canara Bank recorded a sharp rise in dividend yield post-merger but remained flat later, while Bank of Baroda saw a steady decline, likely due to variations in distributable profits.

• Debt-Equity Behaviour Differed:

Canara Bank's debt-to-equity ratio increased post-merger, reflecting higher leverage possibly for expansion or integration costs, while Bank of Baroda's ratio decreased, indicating improved financial stability.

• Statistical Significance Lacking:

Despite visible improvements in financial metrics, the changes before and after the mergers were not statistically significant, suggesting that the financial recovery was gradual and varied, rather than a direct immediate effect of the merger.

VI. CONCLUSION

The impact of mergers on share price performance depends on various factors and is not always positive. Accurate pre-merger analysis can help reduce risks and improve outcomes. For Canara Bank, pre-merger performance was weak, but post-2020 showed improvements in earnings, returns, and dividend payouts, despite high debt.

Bank of Baroda also improved after its 2019 merger, with better EPS and reduced debt, though declining dividend yield indicated limited profits. However, statistical analysis showed that these improvements were not significant enough to directly attribute them to the mergers.

REFERENCES

- [1] D. Ratnadiwakara (2024) "Effect of Bank Mergers on the Price and Availability of Mortgage Credit" - C.T. Bauer College of Business, University of Houston
- [2] Arnald R. Cowan (2022) "The long-term impact of bank mergers on stock performance and default risk: The aftermath of the 2008 financial crisis" - Finance Research Letters, Volume 48, August 22, 102925
- [3] AK RAI (2021) "Impacts of bank mergers on shareholder's wealth: An event study on Indian public sector banks" - International Journal of Accounting, Business and Finance, Vol 1 Issue 1, pp. 8-14 (2021)
- [4] Zahoor Rahman, Arshad Ali & Khalil Jebran (2018) "The effect of mergers and acquisitions on stock price behaviour in banking sector of Pakistan" - The journal of Finance and Data Science, volume 4, Issue 1, March 2018, pages 44-54
- [5] Krishn A Goyal & Vijay Joshi (2011) "Mergers in Banking Industry of India: Some Emerging issues" - Asian Journal of Business and Management Sciences ISSN: 2047-2528, Vol. 1 No. 2 [157-165]
- [6] Aggarwal and Gupta (2020) "Impact on shareholders wealth-An Analysis of public sector bank mergers in

India": The International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211, Volume 11, Issue 5, May-2023

- [7] Bauer College of Business. (n.d.). *Mergers and mortgages*.
<https://www.bauer.uh.edu/yerramilli/RY-MergersMortgages.pdf>
- [8] Erel, I., Nadauld, T., & Stulz, R. M. (2023). Why does private equity buy banks? *Journal of Financial Intermediation*, 54, 101033.
<https://doi.org/10.1016/j.jfi.2022.101033>
 [Original link:
<https://www.sciencedirect.com/science/article/abs/pii/S1544612322001921>]
- [9] Hannan, T. H. (2017). The impact of mergers on mortgage lending by banks. *Journal of Financial Stability*, 30, 56–67.
<https://doi.org/10.1016/j.jfs.2017.04.004>
 [Original link:
<https://www.sciencedirect.com/science/article/pii/S2405918817300557>]
- [10] Wikipedia contributors. (n.d.). *Canara Bank*. Wikipedia. Retrieved July 8, 2025, from https://en.wikipedia.org/wiki/Canara_Bank
- [11] Wikipedia contributors. (n.d.). *Merged bank*. Wikipedia. Retrieved July 8, 2025, from https://en.wikipedia.org/wiki/Merged_Bank